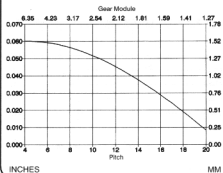


# 3/8 SMOOTH DZH140/160 DZH260/261 SERIES HALL-EFFECT ZERO SPEED SENSORS WITH TRANSIENT PROTECTION

FULL OUTPUT OBTAINED AT ANY POINT BELOW THE LINE.



AIR GAP

FOR SPEED SENSING APPLICATIONS THAT REQUIRE TRUE ZERO-SPEED RESPONSE WHERE OVERALL SENSOR SIZE IS OF CONCERN. ALL SENSORS HAVE SEALED FRONT END. SENSOR ALIGNMENT REQUIRED.

## GENERAL SPECIFICATIONS

**SUPPLY VOLTAGE:** 5.0 to 26.0 VDC @ 30mA max.  
*Reverse polarity protected.*

**REQUIRED TARGET:** Gear, Sprocket, Hole Pattern

**OPER. TEMP. RANGE - 1xx Series:** -4 to 176F (-20 to 80C)  
**2xx Series:** -40 to 257F (-40 to 125C)

**OUTPUT SIGNAL:** Low = 400 mV max. @ 20 mA sink.  
High =  $(R_L \times V_S) / (R_L + 4700 \Omega)$   
*Use value of external pull-up resistor for "OC" versions.  
Rise/Fall Time: 2μ sec. / 4μ sec. typ.*

**ENCLOSURE:** NEMA Type 6, IEC Type IP 67

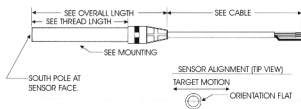
**MAX. SINK CURRENT:** 25mA

**OUTPUT:** 4700 ohm pullup or open collector

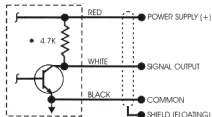
**DUTY CYCLE:** 20 to 80%, .035" Gap, 8 DP Gear

**TRANSIENT PROTECTION (DZH26X Series only):**  
+100V, -75V Peak for 10 μ sec.

**VIBRATION:** Meets Mil-Std 202F Method 204D



• The 4.7K Resistor is not included in the OC versions.



### DZH140 SERIES: NYLON 3/8 SMOOTH HOUSING

MODEL	OVERALL LENGTH	THREAD LENGTH	MOUNTING	CABLE	OUTPUT	FREQUENCY RANGE
DZH140	1.90	1.00	3/8-Smooth	3/22 PVC 69"	4700 Ohm Pull-up	0 - 50 KHz
DZH140OC	1.90	1.00	3/8-Smooth	3/22 PVC 69"	Open Collector	0 - 50 KHz

### DZH160 SERIES: NYLON 3/8-24 UNF-2A THREADED HOUSING

MODEL	OVERALL LENGTH	THREAD LENGTH	MOUNTING	CABLE	OUTPUT	FREQUENCY RANGE
DZH160	1.90	1.00	3/8-24 UNF-2A	3/22 PVC 69"	4700 Ohm Pull-up	0 - 50 KHz
DZH160OC	1.90	1.00	3/8-24 UNF-2A	3/22 PVC 69"	Open Collector	0 - 50 KHz

### DZH260 SERIES: 303 SSSL 3/8-24 UNF-2A THREADED HOUSING

MODEL	OVERALL LENGTH	THREAD LENGTH	MOUNTING	CABLE	OUTPUT	FREQUENCY RANGE
DZH260	1.90	1.00	3/8-24 UNF-2A	3/24 TEF 69"	4700 Ohm Pull-up	0 - 50 KHz
DZH260-20	2.90	2.00	3/8-24 UNF-2A	3/24 TEF 69"	4700 Ohm Pull-up	0 - 50 KHz
DZH260OC	1.90	1.00	3/8-24 UNF-2A	3/24 TEF 69"	Open Collector	0 - 50 KHz
DZH260-20OC	2.90	2.00	3/8-24 UNF-2A	3/24 TEF 69"	Open Collector	0 - 50 KHz

### DZH261 SERIES: 6061 ALUMINUM 3/8-24 UNF-2A THREADED HOUSING

MODEL	OVERALL LENGTH	THREAD LENGTH	THREAD TYPE	CABLE	OUTPUT	FREQUENCY RANGE
DZH261	1.90	1.00	3/8-24 UNF-2A	3/24 TEF 69"	4700 Ohm Pull-up	0 - 50 KHz
DZH261-20	2.90	2.00	3/8-24 UNF-2A	3/24 TEF 69"	4700 Ohm Pull-up	0 - 50 KHz
DZH261OC	1.90	1.00	3/8-24 UNF-2A	3/24 TEF 69"	Open Collector	0 - 50 KHz
DZH261-20OC	2.90	2.00	3/8-24 UNF-2A	3/24 TEF 69"	Open Collector	0 - 50 KHz